

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-5. (Canceled)

6. (Currently Amended) An active matrix display device comprising an electro-optical modulating layer disposed between a pair of substrates, said active matrix display device comprising:

a plurality of column lines and a plurality of row lines supported by one of the substrates and defining a plurality of pixels in a matrix form;

a plurality of pixel electrodes formed in said plurality of pixels and supported by said one of said substrates;

a thin film transistor disposed in each of said pixels and electrically connected to one of said column lines and one of said row lines;

a memory circuit disposed in each of said pixels and electrically connected to said thin film transistor, wherein said memory circuit stores an information output by said thin film transistor, wherein the memory circuit comprises a pair of inverters, each of the inverters comprising an n-channel thin film transistor and a p-channel thin film transistor, wherein an input of one of the pair of inverters is connected to the thin film transistor and an output of the other one of the pair of inverters, and wherein an output of the one of the pair of inverters is connected to an input of the other one of the pair of inverters and one of the plurality of pixel electrodes;

at least two voltage source lines electrically connected to said memory circuit wherein the pair of inverters are connected between the two voltage source lines; and

an opposite electrode on the other of said substrates,

wherein different voltages supplied to the two voltage source lines are applied to said pixel electrodes electrode through the pair of inverters ~~said at least two voltage source lines~~ based on the information stored by the corresponding memory circuit;

wherein an AC voltage having an amplitude equivalent to that of the voltages output of the memory circuit is supplied to the opposite electrode.

7. (Canceled)

8. (Previously Presented) The active matrix display device of claim 6 wherein the number of pixel electrodes equals the number of the digital memory circuits.

9. (Original) The active matrix display device of claim 6 wherein the active matrix display device includes a digital gradation display device.

10. (Original) The active matrix display device of claim 6 wherein the active matrix display device includes a time gradation display device.

11. (Original) The active matrix display device of claim 6 wherein the different voltages include a high voltage and a low voltage.

12. (Currently Amended) An active matrix display device comprising an electro-optical modulating layer disposed between a pair of substrates, said active matrix display device comprising:

a plurality of column lines and a plurality of row lines supported by one of the substrates and defining a plurality of pixels in a matrix form;

a plurality of pixel electrodes formed in said plurality of pixels and supported by said one of said substrates;

a first thin film transistor disposed in each of said pixels and electrically connected to one of said column lines and one of said row lines;

a memory circuit disposed in each of said pixels and electrically connected to said first thin film transistor, wherein said memory circuit stores an information output by said first thin film transistor;

at least two voltage source lines electrically connected to said memory circuit; and

an opposite electrode on the other of said substrates,

wherein different voltages supplied to the two voltage source lines are applied to said pixel electrode ~~through said at least two voltage source lines~~ based on the information stored by the corresponding memory circuit, and

wherein said memory circuit comprises at least second and third thin film transistors,

one of source or drain of the second thin film transistor being connected with one of said voltage source lines, a gate electrode of the third thin film transistor, and one of source or drain of the first thin film transistor,

the other of source or drain of the second transistor being connected with the other of said voltage source lines and one of source or drain of the third thin film transistor, and

a gate electrode of the second thin film transistor being connected with the other of source or drain of the third thin film transistor, one of said voltage source lines, and said pixel electrode,

wherein an AC voltage having an amplitude equivalent to that of the voltages output of the memory circuit is supplied to the opposite electrode.

13. (Previously Presented) The active matrix display device of claim 12 wherein a voltage supplied to the electro-optical modulating layer is substantially zero on time average.

14. (Previously Presented) The active matrix display device of claim 12 wherein the number of pixel electrodes equals the number of the memory circuits

15-16. (Canceled)

17. (Original) The active matrix display device of claim 12 wherein the different voltages include a high voltage and a low voltage.

18. (Currently Amended) An active matrix display device comprising an electro-optical modulating layer disposed between a pair of substrates, said active matrix display device comprising:

a plurality of column lines and a plurality of row lines supported by one of the substrates and defining a plurality of pixels in a matrix form;

a plurality of pixel electrodes formed in said plurality of pixels and supported by said one of said substrates;

a first thin film transistor disposed in each of said pixels and electrically connected to one of said column lines and one of said row lines;

a memory circuit disposed in each of said pixels and electrically connected to said first thin film transistor, wherein said memory circuit stores an information output by said first thin film transistor;

at least two voltage source lines electrically connected to said memory circuit; and

an opposite electrode on the other of said substrates,

wherein different voltages supplied to the two voltage source lines are applied to said pixel electrode ~~through said at least two voltage source lines~~ based on the information stored by the corresponding memory circuit,

wherein said memory circuit comprises at least two inverters, said inverters comprising at least two thin film transistors and being connected with said voltage source lines; and

wherein an input of one of the pair of inverters is connected to the thin film transistor and an output of the other one of the pair of inverters, and wherein an output of the one of the pair of

inverters is connected to an input of the other one of the pair of inverters and one of the plurality of pixel electrodes;

wherein an AC voltage having an amplitude equivalent to that of the voltages output of the memory circuit is supplied to the opposite electrode, and  
wherein the two inverters are connected between the two voltage source lines.

19. (Previously Presented) The active matrix display device of claim 18 wherein the number of pixel electrodes equals the number of the memory circuits.

20. (Original) The active matrix display device of claim 18 wherein the active matrix display device includes a digital gradation display device.

21. (Original) The active matrix display device of claim 18 wherein the active matrix display device includes a time gradation display device.

22. (Original) The active matrix display device of claim 18 wherein the different voltages include a high voltage and a low voltage.

23. (Canceled)

24. (Currently Amended) An active matrix display device comprising an electro-optical modulating layer disposed between a pair of substrates, said active matrix display device comprising:

a plurality of column lines and a plurality of row lines supported by one of the substrates and defining a plurality of pixels in a matrix form;

a plurality of pixel electrodes formed in said plurality of pixels and supported by said one of said substrates;

a first thin film transistor disposed in each of said pixels and electrically connected to one of said column lines and one of said row lines;

a memory circuit disposed in each of said pixels and electrically connected to said first thin film transistor, wherein said memory circuit stores an information output by said first thin film transistor;

at least two voltage source lines electrically connected to said memory circuit; and  
an opposite electrode on the other of said substrates,

wherein different voltages supplied to the two voltage source lines are applied to said pixel electrode ~~through said at least two voltage source lines~~ based on the information stored by the corresponding memory circuit,

wherein the memory circuit comprises at least second and third thin film transistors, one of source or drain of the second thin film transistor being connected with one of the two voltage source lines through a first resistor, a gate electrode of the third thin film transistor, and one of source or drain of the first thin film transistor,

the other of source or drain of the second transistor being connected with the other of the two voltage source lines and one of source or drain of the third thin film transistor, and

a gate electrode of the second thin film transistor being connected with the other of source or drain of the third thin film transistor, the one of the two voltage source lines through a second resistor, and the pixel electrode,

wherein an AC voltage having an amplitude equivalent to that of the voltages output of the memory circuit is supplied to the opposite electrode.

25. (Original) The active matrix display device of claim 24 wherein a voltage supplied to the electro-optical modulating layer is substantially zero on time average.

26. (Previously Presented) The active matrix display device of claim 24 wherein the number of pixel electrodes equals the number of the memory circuits.

27. (Original) The active matrix display device of claim 24 wherein the active matrix display device includes a digital gradation display device.

28. (Canceled)

29. (Original) The active matrix display device of claim 24 wherein the different voltages include a high voltage and a low voltage.

30-46. (Canceled)

47. (Previously Presented) The active matrix display device according to claim 6 wherein said electro-optical modulating layer comprises a liquid crystal.

48. (Previously Presented) The active matrix display device according to claim 12 wherein said electro-optical modulating layer comprises a liquid crystal.

49. (Previously Presented) The active matrix display device according to claim 18 wherein said electro-optical modulating layer comprises a liquid crystal.

50. (Previously Presented) The active matrix display device according to claim 24 wherein said electro-optical modulating layer comprises a liquid crystal.

51-61. (Canceled)